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PATENT
Attorney Docket No.: R-227

Mail Stop Non-Fee Amendments
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

On 9-14-04

Donald Mixon

By: Donald Mixon

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Keith D. Allen

Application No.: 10/015,551

Filed: December 11, 2001

Title: Transgenic Mice Containing Brain-Specific Membrane Anchored Protein Gene Disruptions

Examiner: Nguyen, Quang

Art Unit: 1636

**DECLARATION OF WINSTON THOMAS
PURSUANT TO 37 C.F.R. § 1.132**

Commissioner for Patents
Mail Stop Non-Fee Amendment
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

I, Winston Thomas, reside at 40 White Plains Court, San Mateo, CA, and declare as follows:

1. I am presently employed as Vice President of Scientific Operations at Deltagen, Inc. in San Carlos, CA. I have previously served as the Company's Associate Director, Director and Senior Director of Molecular Biology, in which positions I managed and

oversaw the Company's knockout mouse pipeline. I possess a Ph.D in Molecular Biology, received at the department of Cellular and Developmental Biology at Harvard University.

2. The data presented in Table 1 below represents the prepulse inhibition values observed in wild-type mice and transgenic knockout mice comprising BSMAP gene disruptions. This data was used to produce the graph presented in Figure 3, disclosed in the above-referenced application for patent. The data in Table 1 represent the responses of the individual transgenic and wild-type mice, as measured in a San Diego Instruments SR-LAB sound response chamber, to sound stimuli, with and without prepulse stimulation. The percent prepulse inhibition values represent the decrease in sound response when a base stimulus is preceded by a prepulse. For example, in the present case, the percent prepulse inhibition for the 120 decibel pulse preceded by a 100 decibel prepulse (PPI100/120) is calculated by determining the difference between the response to a 120 decibel pulse (P120) and the response to the 120 decibel pulse when preceded by a prepulse of 100 decibels (PP100P120), taken as a percentage of the original P120 response. Table 1 demonstrates a significant difference in prepulse inhibition between wild-type and transgenic mice when a 120 decibel pulse is preceded by a 100 decibel prepulse (p-value is less than 0.05 using a Student's T-test).

3. The Sound Response and Prepulse Inhibition Values were as follows for the transgenic mice and wild-type mice.

Table 1. Sound Response and Prepulse Inhibition in BSMAP Transgenic and Wild-type Mice - Gene 227

	Base pulse stimulus P120	Prepulse stimulus PP100P120	Prepulse Inhibition (%) PPI100/120
Genotype +/+			
	289.1	58.9	79.63
	754.5	64.4	91.46
	361.3	61.1	83.09
	193.3	62.5	67.67
	2303.4	623.1	72.95
	1114.7	190.9	82.87
	2387.2	649.9	72.78
	123.5	29	76.52
	162.6	52.2	67.9
	901.4	641.7	28.81
	1236.9	584	52.79
WT Average	893.45	274.34	70.59
WT Standard Dev.	816.77	281.22	17.17
Genotype -/-			
	1071.3	56.6	94.72
	585.4	56.6	90.33
	1829.8	189.9	89.62
	1431.6	63.9	95.54
	1736.2	120.2	93.08
	114.6	4.5	96.07
	93.6	37.5	59.94
	1339.3	88.4	93.4
	528.3	48.2	90.88
	1128.7	214	81.04
	1830.1	539	70.55
	1296.3	246.6	80.98
Average	1082.1	138.78	86.34
Standard Dev.	621.54	147.27	11.26
WT Average	893.45	274.34	70.59
WT Standard Dev.	816.77	281.22	17.17
1-p	0.46	0.84	0.98

4. I further declare that all statements made herein of my own knowledge are true; and further that these statements were made with knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the above-referenced application or any patent issuing thereon.

Winston Thomas

Winston Thomas, Ph.D

9/13/04

Date